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DEPARTMENT OF THE ARMY RST-10800R (March 2002)  
U.S. ARMY CORPS OF ENGINEERS -----  
Superceding  
RST-10800R (08/00)

GUIDE SPECIFICATION FOR CONSTRUCTION

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## GUIDE SPECIFICATION FOR CONSTRUCTION

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## SECTION 10800R

TOILET AND BATH ACCESSORIES  
03/02

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NOTE: This guide specification covers the requirements for toilet and bath accessories associated with restroom, kitchen and shower room design. This guide specification is to be used in the preparation of project specifications. Contact the Louisville District with revisions that are needed to this specification.

RST-10800 is a Louisville District Army Reserve Support Team (RST) guide specification.

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## PART 1 GENERAL

## 1.1 REFERENCES

## AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI A117.1 Safety Standards for the Handicapped.

## AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)

ASTM A123 Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.

ASTM A167 Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.

ASTM A269 Seamless and Welded Austenitic Stainless Steel Tubing for General Service.

ASTM A366 Steel, Carbon, Cold-Rolled Sheet, Commercial Quality.

ASTM B456

Electrodeposited Coatings of Copper Plus  
Nickel Plus Chromium and Nickel Plus  
Chromium.

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA LD-3

High Pressure Decorative Laminates.

## 1.2 SUBMITTALS

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NOTE: Submittals must be limited to those necessary for adequate quality control. The importance of an item in the project should be one of the primary factors in determining if a submittal for the item should be required.

Indicate submittal classification in the blank space following the name of the item requiring the submittal by using "G" when the submittal requires Government approval. Submittals not classified as "G" will show on the submittal register as "Information Only". For submittals requiring Government approval, a code of up to three characters should be used following the "G" designation to indicate the approving authority; codes of "RE" for Resident Engineer approval, "ED" for Engineering approval, and "AE" for Architect-Engineer approval are recommended.

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Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-03 Product Data

Toilet and Shower Accessories; FIO

Provide manufacturer's data on all accessories describing size, finish, details of function, attachment methods.

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NOTE: Vendor information that forms part of this guide specification is permissible to use as long as the salient features provide for "or equal" product equivalents are specified. Submittal clauses must be modified to make known that specific vendor information is being specified. If the Contractor chooses to provide the specified vendor's product, the submittal for that item is considered a For Information Only submittal. If the Contractor uses a different "or equal" item, then it will be

evaluated against the salient features. Hence, it  
is considered for Government Approval (G).

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Acceptable Manufacturer Products; FIO

Manufacturers products listed in this specification are referenced to establish a standard of quality. When the specific product listed is submitted by the Contractor, that submittal will be considered For Information Only. When an equal to that named in this specification is submitted, it shall be for Government Approval (G). The following manufacturer products are specifically mentioned in this specification:

Bobrick Washroom Equipment, Inc.; FIO

Bradley Corporation; FIO

American Specialties; FIO

Toilet and Bath Manuf. Products submitted as an "or equal"; G  
[\_\_\_].

SD-08 Manufacturer's Instructions

Toilet and Bath Accessories; FIO

Indicate manufacturer's installation procedures, perimeter conditions requiring special attention, and anchorage.

### 1.3 REGULATORY REQUIREMENTS

Conform to ANSI A117.1 code for access for the handicapped.

### 1.4 FIELD MEASUREMENTS

Verify that field measurements are as indicated on product data.

### 1.5 COORDINATION

Coordinate the work with the placement of internal wall reinforcement and reinforcement of toilet partitions to receive anchor attachments.

## PART 2 PRODUCTS

### 2.1 MATERIALS

#### 2.1.1 Sheet Steel:

ASTM A366.

#### 2.1.2 Stainless Steel Sheet:

ASTM A167, Type 304.

### 2.1.3 Tubing:

ASTM A269, stainless steel.

### 2.1.4 Adhesive:

Two component epoxy type waterproof.

### 2.1.5 Fasteners, Screws, and Bolts:

Hot dip galvanized, tamper-proof, and security type.

### 2.1.6 Expansion Shields:

Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

## 2.2 FABRICATION

Weld and grind joints of fabricated components, smooth.

Form exposed surfaces from single sheet of stock, free of joints. Form surfaces flat without distortion. Maintain surfaces without scratches or dents.

Fabricate grab bars of tubing, free of visible joints, return to wall with end attachment flanges. Form bar with minimum 38.1mm clearance from wall surface. All grab bar installations shall withstand forces in excess of 13.4 kN.

Shop assemble components and package complete with anchors and fittings.

Provide steel anchor plates, adapters, and anchor components for installation.

## 2.3 KEYING

Supply 2 keys for each accessory to Contracting Officer.

Master key all accessories.

## 2.4 FINISHES

### 2.4.1 Galvanizing:

ASTM A123 to 42.36g/sq. m. Galvanize ferrous metal and fastening devices.

### 2.4.2 Shop Primed Ferrous Metals:

Pretreat and clean, spray apply one coat primer and bake.

### 2.4.3 Stainless Steel:

All metal appearance finishes shall be No. 4 satin luster finish.

2.4.4 Back paint components where contact is made with building finishes to prevent electrolysis.

### PART 3 EXECUTION

#### 3.1 EXAMINATION

Verify that site conditions are ready to receive work and dimensions are as indicated on shop drawings.

Verify exact location of accessories for installation.

#### 3.2 PREPARATION

Deliver inserts and rough-in frames to site for timely installation.

Provide templates and rough-in measurements as required.

#### 3.3 INSTALLATION

Install accessories in accordance with manufacturers' instructions and ANSI A117.1.

Install plumb and level, securely and rigidly anchored to substrate at the locations indicated on the drawings.

#### 3.4 SCHEDULE

##### 3.4.1 A1, Mop and Broom Holder

(ASI Model 1318, Bradley Model 9986 Bobrick Model B-224) - Strip shall be constructed of 1.31mm (18 gage) Type 302 stainless steel no. 4 satin finish. Strip shall be formed with a return flange to the wall on top and a returned flange to the wall at the bottom. Holder pieces shall be constructed from molded resilient rubber with ribbed gripping surface. Strip shall be 1219mm long with 6 holders.

##### 3.4.2 A2, Stainless Steel Framed Mirror

(Bobrick Model 2908, 457.2 x 762mm) - Mirror shall be framed with one-piece, type 304, stainless steel angle, 19 x 19mm with continuous integral stiffener on all sides and beveled edge to hold frame tightly against mirror. Corners shall be heliarc welded, ground and polished smooth. All exposed surfaces shall be satin finish. Mirror shall be No. 1 quality 6.4mm tempered glass. All edges shall be protected by high impact plastic filler strips. Back of mirror shall be protected by shock-absorbing, waterproof, non-abrasive 6.4mm thick polystyrene padding. Galvanized steel back shall have integral hanging brackets for mounting on concealed rectangular wall hanger(s) and be secured with concealed Phillips-head locking screws in lower frame.

##### 3.4.3 A3, Tilted Mirror

(Bobrick Model B-293-1830, 460 x 770mm ) - Sloping tilt mirror frame shall be type 304 stainless steel with beveled front to hold frame tightly against mirror. Corners shall be heliarc welded, ground, and polished smooth. All exposed surfaces shall have satin finish with vertical grain. Mirror shall be 6.4mm tempered glass. All edges shall be protected by full-size, shock-absorbing, water-resistant, nonabrasive polystyrene padding. Back and inner stiffener frame shall be galvanized steel, one piece welded construction with slots for mounting screws and integral screw-head lock.

#### 3.4.4 A4, Recessed Paper Towel Dispenser and Waste Receptacle

(Bobrick Model No. B-3803) - Recessed paper towel dispenser and waste receptacle shall be type 304 stainless steel with all welded construction; exposed surfaces shall have satin finish. Door shall be 18 gage and secured to the cabinet with a concealed, full length stainless steel piano hinge and equipped with a stainless steel steel cable door swing limiter and two tumbler locks. Paper towel dispenser shall be capable of dispensing 600 C fold, 800 mutlifold or 1100 singlefold paper towels. Waste receptacle shall be furnished with a removable, leakproof rigid molded plastic waste container with a capacity of 24 liters.

#### 3.4.5 A5, Recessed Paper Towel Dispenser and Waste Receptacle

(ASI Model 0462 AD, Bradley Model 2291, Bobrick Model No. B-369) - Recessed paper towel dispenser and waste receptacle shall be constructed entirely of Type 304 stainless steel, welded construction with exposed surfaces satin finish. Flange shall be drawn one-piece seamless construction. Door shall be double pan construction and equipped with a knob latch. Door shall be secured to cabinet with full-length stainless steel piano hinge. Paper Towel Dispenser shall be capable of dispensing 350 fold or 475 Multifold paper towels without use of adapters. Waste receptacle, removable for servicing, with top edges hemmed for safe handling, shall have a capacity of minimum 7.57 liters. Recessed depth shall be maximum 100mm.

#### 3.4.6 A6 and A7, Partition Mounted Double Toilet Tissue Dispenser with Toilet Seat Dispenser and Feminine Napkin Disposal For Servicing Two Toilet Compartments

(Bobrick Model B-357 (A6) and B-3571 (A7)) - Partition mounted double roll toilet tissue dispenser each side shall be type 304 stainless steel with all welded construction. Exposed surfaces shall have satin finish. Toilet seat dispenser shall hold up to 1000 single or half folded toilet seat covers. Front of door shall be drawn, one piece, seamless construction. Toilet seat dispenser door shall be secured to cabinet with piano hinge equipped with a flush tumbler lock. Unit shall dispense two standard core toilet tissue rolls up to 133.4mm in diameter on each side. Unit shall include four heavy duty, one-piece molded polyethylene spindles. Dual feminine napkin disposal shall be constructed entirely of type 302 stainless steel. Sanitary napkin dispenser door shall be secured to cabinet with a spring loaded, full length stainless steel piano hinge and equipped with international graphic symbol. Unit A7 has one side flush with the face of the toilet partition to allow for grab bar clearance.



3.4.7 A8, Recessed Double Toilet Tissue Dispenser with Toilet Seat Dispenser and Feminine Napkin Disposal

(Bobrick Model B-3574). Recessed double roll toilet tissue dispenser shall be type 304 stainless steel with all welded construction. Exposed surfaces shall have satin finish. Toilet seat dispenser shall hold up to 1000 single or half-folded toilet seat covers. Front of door shall be drawn, one piece, seamless construction. Toilet seat dispenser door shall be secured to cabinet with piano hinge equipped with a flush tumbler lock. Sanitary napkin dispenser door shall be secured to cabinet with a spring loaded, full-length stainless steel piano hinge and equipped with international graphic symbol. Unit shall dispense two standard core toilet tissue rolls up to 133.4mm in diameter. Unit shall include two heavy-duty, one-piece molded polyethylene spindles.

3.4.8 A9 and A 10, Partition Mounted Double Toilet Tissue Dispenser with Toilet Seat Dispenser For Servicing Two Toilet Compartments

(Bobrick Model B-347 (A9) and B-3471 (A10)) - Partition mounted double roll toilet tissue dispenser each side shall be type 304 stainless steel with all welded construction. Exposed surfaces shall have satin finish. Toilet seat dispenser shall hold up to 1000 single or half-folded toilet seat covers. Front of door shall be drawn, one piece, seamless construction. Toilet seat dispenser door shall be secured to cabinet with piano hinge equipped with a flush tumbler lock. Unit shall dispense two standard core toilet tissue rolls up to 133.4mm in diameter on each side. Unit shall include four heavy duty, one-piece molded polyethylene spindles. Unit A10 has one side flush with the face of the toilet partition to allow for grab bar clearance.

3.4.9 A11, Recessed Double Toilet Tissue dispenser with Toilet Seat Dispenser

(Bobrick Model No. B-3474) - Recessed double roll toilet tissue dispenser shall be type 304 stainless steel with all welded construction. All exposed surfaces shall have a satin finish. Toilet seat dispenser shall hold 500 paper covers. Door shall be onepiece seamless construction secured to cabinet with a full-length stainless steel piano hinge, and equipped with a tumbler lock. Unit shall dispense two standard core toilet tissue rolls up to 135mm in diameter. Unit shall include two one-piece molded polyethylene spindles.

3.4.10 A12, Surface-Mounted Soap Dispenser with Shelf

(Bobrick Model B-2014) - Soap vessel and shelf are satin-finish stainless steel. Valve shall be operable with one hand and with less than 2.27 kg of force. Valve shall be corrosion resistant design. Soap container shall be removal and have a capacity of 2.4L with unbreakable refill window. Adequate adjustments/accessories shall be provided to allow dispenser to work in location indicated in the drawings.

3.4.11 A13, Stainless Steel Utility Hook:

(ASI Model 7340-S, Bradley Model 9115, Bobrick Model B-670). Utility Hook shall be constructed entirely of type 304 stainless steel with satin finish. Fastenings and mounting plates shall be concealed.

3.4.12 A14, Stainless Steel Grab Bars With Concealed Mounting

(ASI 3201-36, Bradley 812-001-36, Bobrick Model B-6206 x 914mm) - Grab bar shall be constructed of type 304 stainless steel with satin finish. It shall have wall thickness of 1.31mm (18 gage) and outside diameter of 38.1mm. Distance from inside of grab bar to finished wall shall be 38.1mm. Flanges shall be 3.13mm (11-gage) stainless steel, 76.2mm diameter and each shall have 4 stainless steel set screws. Ends of grab bar shall pass thru flanges and be heliarc welded to form one structural unit. Concealed mounting plates shall be 2.37mm (13-gage) stainless steel with 3 slotted screw holes.

3.4.13 A15, Recessed Soap Holder and Bar

(Bobrick Model B-439) - Unit shall be constructed of type 304 stainless steel with satin finish. Soap dish and flange shall be drawn and beveled, one-piece seamless construction. Unit shall include a bar constructed of 4.8mm thick matching stainless steel. Recess depth shall be maximum 75mm.

3.4.14 A16, Heavy-Duty Shower Curtain Rod with Concealed Mounting

(Bobrick Model B-207) - Unit shall be of type 304 stainless steel, 1.006mm (20-gage), with satin finish. Outside diameter shall be 25.4mm. Flanges shall be 41.28mm diameter chrome-plated brass with satin finish. Unit shall include concealed mounting brackets.

3.4.15 A17, Stainless Steel Curtain Hook

(Bobrick Model B-204-1) - Shower curtain hooks shall be 2.3mm diameter, type 304 stainless steel. Hooks shall be usable with curtain rod specified for Item A15. Hooks shall snap open to allow placement on curtain rod.

3.4.16 A18, Opaque White Vinyl Shower Curtain:

(Bobrick Model B-204-3) - Shower curtain shall be opaque, matte white vinyl, .20mm thick. Curtain shall include nickel-plated grommets along top, one at every 152mm. Bottom and sides shall be hemmed. Curtain shall be 1828.8mm high and 1778mm wide.

3.4.17 A19, Double-coin Recessed Napkin/Tampon Vendor

(Bobrick Model B-3500X2; Bradley 401; ASI 0464) - Recessed napkin/tampon vendor shall combine two dispensing mechanisms in one cabinet to provide napkins or tampons at user's option. Dispensing mechanisms shall be convertible to allow the change of coin denomination without purchasing new mechanisms or removing unit from wall. Unit shall be type 304 stainless steel with all-welded construction. Cabinet shall be .85mm (22 gage). Door shall be 1.31mm (18 gage); exposed surfaces shall have satin stainless steel finish. Door shall have 22.2mm 90 degree return edges; be secured to cabinet with a concealed, full-length, stainless steel piano-hinge; and

equipped with a stainless steel cable doorstop and two tumbler locks. Recessed depth shall be maximum 100mm. Each coin box shall be equipped with a tumbler lock that is keyed differently than door locks. Unit shall carry no brand-name advertising. Unit shall be equipped with double-coin mechanisms in the amount to be determined by the Government.

3.4.18 A20, Surface-Mounted Multipurpose Unit with Mirror, Paper Towel Dispenser, Shelf and Soap Dispenser.

(Bobrick Model B-3309) Surface-mounted multipurpose unit shall incorporate mirror, paper towel dispenser, shelf and soap dispenser. Unit shall be type 304 stainless steel all welded construction. Exposed surfaces shall be satin finish. Mirror shall be mounted to the door secured to cabinet with a full length, stainless steel piano hinge. Door shall be equipped with a steel door swing limiter and concealed tumbler lock. Paper towel dispenser shall dispense 600 C fold or 800 multifold paper towels. Soap valve shall be operable with one hand and with less than 22.2N of force. Soap vessel shall slide out for easy refilling and have a capacity of 2.4L.

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